

Algebra I

Solving and Writing Inequalities

Monday, September 28, 2009: Holt Ch 3; TEKS Check 1 Irving ISD

UNIT VOCABULARY (cumulative)

constant	variable	unknown	(x , y)
evaluate	solve	undo	
inverse	opposite	inverse operation	
solution	root	solution set	balance
equation	equality	equivalent	=
contradiction	inequality	imbalance	\neq $>$ \geq $<$ \leq
term	coefficient	combine like terms	literal equation
properties:	commutative	associative	distributive

TAKS VOCABULARY REVIEW

descend(ing)	decline(ing)	decrease(ing)	fall(ing)	fell
ascend(ing)	improve(ing)	increase(ing)	rise(ing)	rose

MATERIALS

Cornell notes	graphing calculators	manipulatives	worksheets	warm-up
foldable	previous homework	Laptop computer		

Engage:

N/A

Elaborate:

N/A

Explain:

N/A

Evaluate:

TEKS Check 1

Explore:

SW will read and completes worksheets: Holt 3-2 Reading Strategies and Practice A
For homework due Tuesday.

Algebra I

Solving and Writing Inequalities

Tuesday, September 29, 2009: Holt Ch 3-2; TEKS:

Solving Inequalities by Adding and Subtracting

UNIT VOCABULARY (cumulative)

constant	variable	unknown	(x , y)
evaluate	solve	undo	
inverse	opposite	inverse operation	
solution	root	solution set	balance
equation	equality	equivalent	=
contradiction	inequality	imbalance	$\neq > \geq < \leq$
term	coefficient	combine like terms	literal equation
properties	commutative	associative	distributive

TAKS VOCABULARY REVIEW

descend(ing)	decline(ing)	decrease(ing)	fall(ing)	fell
ascend(ing)	improve(ing)	increase(ing)	rise(ing)	rose

MATERIALS

Cornell notes graphing calculators manipulatives textbook
worksheets: Holt 3-2 Reading Strategies and Practice A

Warm-up: Holt 3-2 overhead

Engage: N/A

Explore: Holt 3-2 Exploration transparency: Students will think and write complete sentences, and share answers with a partner.

Explain: Holt 3-2 Homework: Teacher will explain answers to the worksheet that was assigned for HW due today.

Elaborate: Holt 3-2 Practice B & Problem Solving. Teacher will guide students through practice problems on the worksheet and assign additional for independent/partner practice.

Evaluate: Teacher will assess progress during guided and independent practice time; students will complete worksheets for homework due tomorrow.

Algebra I

Solving and Writing Inequalities

Wednesday, September 30, 2009: Holt Section 3-3; TEKS:
Solving Inequalities by Multiplying and Dividing

UNIT VOCABULARY (cumulative)

constant	variable	unknown	(x , y)
evaluate	solve	undo	
inverse	opposite	inverse operation	
solution	root	solution set	balance
equation	equality	equivalent	=
contradiction	inequality	imbalance	\neq $>$ \geq $<$ \leq
term	coefficient	combine like terms	literal equation
properties	commutative	associative	distributive

TAKS VOCABULARY REVIEW

descend(ing)	decline(ing)	decrease(ing)	fall(ing)	fell
ascend(ing)	improve(ing)	increase(ing)	rise(ing)	rose

MATERIALS

Cornell notes graphing calculators manipulatives worksheets textbook

Warm-up: Holt 3-3 overhead (Alternate opener transparency)

Explore: Holt 3-3 Exploration transparency: Students will think and write complete sentences, and share answers with a partner. (Think/Pair/Share)

Engage: Students will create a vocabulary chart and give verbal and symbolic representations of the meanings of their vocabulary words.

Explain: Holt 3-3 Homework: Teacher will explain answers to the worksheet that was assigned for HW due today.

Elaborate: Holt 3-3 Practice B & Problem Solving. Teacher will guide students through practice problems on the worksheet and assign additional for independent/partner practice.

Evaluate: Teacher will assess progress during guided and independent practice time; students will complete worksheets for homework due tomorrow.

Students will bring laptops to class tomorrow!

Algebra I Solving and Writing Inequalities

Thursday, October 1, 2009: **Holt Section 3-3; TEKS**

Solving Inequalities by Multiplying and Dividing

UNIT VOCABULARY (cumulative)

constant	variable	unknown	(x , y)
evaluate	solve	undo	
inverse	opposite	inverse operation	
solution	root	solution set	balance
equation	equality	equivalent	=
contradiction	inequality	imbalance	\neq $>$ \geq $<$ \leq
term	coefficient	combine like terms	literal equation
properties	commutative	associative	distributive

TAKS VOCABULARY REVIEW

descend(ing)	decline(ing)	decrease(ing)	fall(ing)	fell
ascend(ing)	improve(ing)	increase(ing)	rise(ing)	rose

MATERIALS

Cornell notes graphing calculators manipulatives worksheets textbook
Computer and Gizmo login info and related handout

Warm-up: Alternate opener transparency Holt 3-3

Engage: N/A

Explore: Explorelearning.com gizmo on solving inequalities by multiplying and dividing. Students will discover how to solve by exploring on the gizmo and will complete written records of what they have learned on the exploration guide worksheet.

Elaborate: Teacher will walk the room and help individuals who need further assistance or elaboration on the concepts.

Evaluate:
SW will complete written exercises from the Gizmo worksheet and related homework.

Classwork: Odd numbers; Substitute to check answers with the calculator. SW will be prepared to justify answers to a peer or the teacher when questioned.

Homework: Even numbers. SW ALWAYS show his/her steps, and substitute to check answers with the calculator.

Algebra I Solving and Writing Inequalities

Friday, October 2, 2009: Holt Algebra I Section 3-4; TEKS: A.7.B and A.4.A

Solving Two-step and Multi-Step Inequalities; Review/Practice/Quiz; TAKS (Obj. 2)*; Binder Check: Grade given for classwork and warm-ups.

UNIT VOCABULARY (cumulative)

constant	variable	unknown	(x , y)
evaluate	solve	undo	
inverse	opposite	inverse operation	
solution	root	solution set	balance
equation	equality	equivalent	=
contradiction	inequality	imbalance	$\neq > \geq < \leq$
term	coefficient	combine like terms	literal equation
properties	commutative	associative	distributive

TAKS VOCABULARY REVIEW

descend(ing)	decline(ing)	decrease(ing)	fall(ing)	fell
ascend(ing)	improve(ing)	increase(ing)	rise(ing)	rose

MATERIALS

Cornell notes graphing calculators manipulatives worksheets textbook

Warm-up: Holt transparency (Alt opener 3-4)

Explain:

TW re-teach concepts that most students have discovered by reading (Wed.) and exploring the technology lesson (Thu). TW explain important words for inequalities and the proper way to graph solutions of an inequality on a number line. TW use mathematical vocabulary, relating simpler explanations when necessary. TW will always use the proper terminology. TW will use Socratic questioning to help students come to understanding through critical thinking and discovery, even during the re-teaching process.

Evaluate:

Quick quiz on inequalities subject matter which has been covered up to this point.

Classwork: Holt worksheets odd numbers; SW ALWAYS show his/her steps, and substitute to check answers with the calculator.

TW walk the room and check for understanding. TW will complete binder check while students are working on independent practice.

Homework: Have a nice weekend! ☺